

# Glutaric acid, 2-naphthyl nonyl ester

<b>Inchi:</b>	InChI=1S/C24H32O4/c1-2-3-4-5-6-7-10-18-27-23(25)14-11-15-24(26)28-22-17-16-20-12
<b>InchiKey:</b>	GFTWDNYAVNUBOW-UHFFFAOYSA-N
<b>Formula:</b>	C24H32O4
<b>SMILES:</b>	CCCCCCCCCOC(=O)CCCC(=O)Oc1ccc2ccccc2c1
<b>Mol. weight [g/mol]:</b>	384.51

## Physical Properties

Property code	Value	Unit	Source
gf	-107.21	kJ/mol	Joback Method
hf	-612.16	kJ/mol	Joback Method
hfus	54.16	kJ/mol	Joback Method
hvap	91.91	kJ/mol	Joback Method
log10ws	-7.48		Crippen Method
logp	6.209		Crippen Method
mvol	320.680	ml/mol	McGowan Method
pc	1214.90	kPa	Joback Method
rinpol	3178.00		NIST Webbook
rinpol	3178.00		NIST Webbook
tb	951.74	K	Joback Method
tc	1168.86	K	Joback Method
tf	576.20	K	Joback Method
vc	1.242	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1039.95	J/molxK	951.74	Joback Method
cpg	1055.33	J/molxK	987.93	Joback Method
cpg	1069.55	J/molxK	1024.11	Joback Method
cpg	1082.66	J/molxK	1060.30	Joback Method
cpg	1094.73	J/molxK	1096.49	Joback Method
cpg	1105.83	J/molxK	1132.67	Joback Method
cpg	1116.02	J/molxK	1168.86	Joback Method
dvisc	0.0004923	Paxs	576.20	Joback Method

dvisc	0.0002960	Paxs	638.79	Joback Method
dvisc	0.0001949	Paxs	701.38	Joback Method
dvisc	0.0001374	Paxs	763.97	Joback Method
dvisc	0.0001022	Paxs	826.56	Joback Method
dvisc	0.0000792	Paxs	889.15	Joback Method
dvisc	0.0000635	Paxs	951.74	Joback Method

## Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U358785&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358785&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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